

AMENDMENTS TO THE SPECIFICATION:

Please insert the following at page 33, line 21:

REPRESENTATIVE HISTONE SEQUENCES

Human H3 histone (SEQ ID NO:11)

ARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRPGTVALREIRRYQKST
ELLIRKLFPQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRVT
MPKDIQLARRIRGERA

Human H4 histone (SEQ ID NO:12)

SGRGKGGKGLGKGGAKRHRKVLRDDIQGITKPAIRRLARRGGVKRISGLIYEETRGVLK
V FLENVIRDAVTYTEHAKRKTVTAMDVVYALKRQGRPLYGFGG

Human H2A histone (SEQ ID NO:13)

SGRGKQGGKARAKAKTRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAADVLEYLTA
EILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLKGVTIAQGGVLPNIQAVLLPKKTESHKA
KGK

Human H2B histone (SEQ ID NO:14)

PEPSKSAPAPKKGSKKAITKAQKKGKKRKRSRKESYSIYVYKVLKQVHPDTGISSKAM
GIMNSFVNDIFERIAGEASRLAHYNKRSTITSREIQTAVRLLPGELAKHAVSEGTKAVTK
YTSSK

Human H2A.X histone (SEQ ID NO:15)

SGRGKTGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGHYAERVGAGAPVYLAADVLEY
LTA
EILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLGGVTIAQGGVLPNIQAVLLPKKTS
ATVGPKAPSGGKKATQASQEY

Human H3.3 histone (SEQ ID NO:16)

ARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKST
ELLIRKLFPQRLVREIAQDFKTDLRFQSAAGALQEASEAYLVGLFEDTNLCAIHAKRVTI
MPKDIQLARRIRGERA

Before the Figures, insert the Sequence Listing submitted herewith.